

**STATEMENT OF BASIS (AI No. 151353)**

for draft Louisiana Pollutant Discharge Elimination System permit No. LA0123358 to discharge to waters of the State of Louisiana.

**THE APPLICANT IS:** Louisiana Department of Wildlife and Fisheries  
Grand Isle Marine Fisheries Laboratory  
2000 Quail Drive  
Baton Rouge, LA 70808

**ISSUING OFFICE:** Louisiana Department of Environmental Quality (LDEQ)  
Office of Environmental Services  
Post Office Box 4313  
Baton Rouge, Louisiana 70821-4313

**PREPARED BY:** Yvonne Baker

**DATE PREPARED:** November 19, 2007

**1. PERMIT STATUS****A. Reason For Permit Action:**

First time issuance of a Louisiana Pollutant Discharge Elimination System (LPDES) permit for a 5-year term.

**B. NPDES permit -** NPDES permit effective date: N/A  
NPDES permit expiration date: N/A  
EPA has not retained enforcement authority.

**C. LPDES permits -**  
LPDES permit effective date: N/A  
LPDES permit expiration date: N/A

**D. Date Application Received:** June 22, 2007

**2. FACILITY INFORMATION****A. FACILITY TYPE/ACTIVITY - aquaculture research laboratory**

The facility is an aquaculture research laboratory proposing to discharge treated sanitary wastewater and vehicle and utility washwater. The facility plans to reuse some of the treated sanitary wastewater for washing.

**B. FEE RATE**

1. Fee Rating Facility Type: minor
2. Complexity Type: I
3. Wastewater Type: III
4. SIC code: 8733

**C. LOCATION -** on Ludwig Lane in Grand Isle, Jefferson Parish  
Latitude 29° 13' 57", Longitude 89° 59' 52"

Statement of Basis for

Louisiana Department of Wildlife and Fisheries, Grand Isle Marine Fisheries Laboratory

LA0123358, AI No. 151353

Page 2

**3. OUTFALL INFORMATION**

Outfall 001

Discharge Type: treated sanitary wastewater

Treatment: activated sludge with aeration, clarification and chlorination

Location: at the point of discharge from the STP prior to mixing with waters of the state

Flow: 5000 GPD

Discharge Route: via pipe to local drainage thence into Bayou Rigaud

Outfall 002

Discharge Type: vehicle and utility washwater

Treatment: none

Location: at the point of discharge from the washing activity prior to mixing with waters of the state

Flow: variable

Discharge Route: into local drainage thence into Bayou Rigaud

**4. RECEIVING WATERS**

STREAM - via pipe to local drainage thence into Bayou Rigaud

BASIN AND SEGMENT - Barataria Basin, Segment 021101

DESIGNATED USES -

- a. primary contact recreation
- b. secondary contact recreation
- c. propagation of fish and wildlife
- e. oyster propagation

**5. TMDL STATUS**

Subsegment 021101, Barataria Bay; includes Caminada Bay, Hackberry Bay, Bay Baptiste, and Bay Long (Estuarine), is not listed on LDEQ's Final 2004 303(d) List as impaired, and to date no TMDL's have been established. A reopener clause will be established in the permit to allow for the requirement of more stringent effluent limitations and requirements as imposed by any future TMDLs.

**6. PROPOSED EFFLUENT LIMITS**

BASIS - See Rationale below.

**7. COMPLIANCE HISTORY/COMMENTS**

A. WQMD - N/A; this is an initial permit.

B. DMR Review/Excursions - N/A; this is an initial permit.

**Statement of Basis for**

Louisiana Department of Wildlife and Fisheries, Grand Isle Marine Fisheries Laboratory

LA0123358, AI No. 151353

Page 3

**8. ENDANGERED SPECIES**

The receiving waterbody, Subsegment 021101 of the Barataria Basin is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U.S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated October 24, 2007 from Boggs (FWS) to Brown (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat. Therefore, the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat.

**10. HISTORIC SITES**

The discharge will be from a proposed facility (expansion). LDEQ has consulted with the State Historic Preservation Officer (SHPO) in a letter dated June 28, 2007 to determine whether construction-related activities could potentially affect sites or properties on or eligible for listing on the National Register of Historic Places. SHPO's response letter, dated July 27, 2007, stated that the facility as proposed will have no potential effects.

**11. TENTATIVE DETERMINATION**

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to issue a permit for the discharge described in the application.

**12. PUBLIC NOTICES**

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

Statement of Basis for  
Louisiana Department of Wildlife and Fisheries, Grand Isle Marine Fisheries Laboratory  
LA0123358, AI No. 151353  
Page 4

**Rationale for Louisiana Department of Wildlife and Fisheries**

1. **Outfall 001 - treated sanitary wastewater (estimated flow is 5000 GPD)**

<u>Pollutant</u>	<u>Limitation</u> Mo. Avg.: Wkly. Avg. (mg/l)	<u>Reference</u>
Flow (GPD)	Report: Report	
BOD <sub>5</sub>	30 mg/l: 45 mg/l	Similar discharges* (BPJ)
Fecal Coliform	14: 43	Similar discharges* (BPJ)
Colonies/100 ml		
TSS	---: 45 mg/l	Similar discharges* (BPJ)
pH	6.0 - 9.0 su	Similar discharges* (BPJ)

**Treatment:** activated sludge with aeration, clarification and chlorination

**Monitoring Frequency:** Semiannually for all parameters at the point of discharge from the STP prior to mixing with waters of the state.

**Limits Justification:** Limits and monitoring frequencies are based on current guidance for similar discharges from other facilities. More stringent fecal coliform limitations were applied because the facility's discharge is in an oyster propagation area and because the facility plans to reuse some of the water for washing.

2. **Outfall 002 – vehicle and utility washwater**

<u>Pollutant</u>	<u>Limitation</u> Mo. Avg: Daily Max (mg/L)	<u>Reference</u>
Flow (GPD)	Report: Report	
TSS	---:45 mg/L	Similar discharges * (BPJ), LAG480000
COD	200 mg/L: 300 mg/L	Similar discharges * (BPJ), LAG480000
Oil and Grease	---:15 mg/L	Similar discharges * (BPJ), LAG480000
pH	6.0 - 9.0 su	Similar discharges * (BPJ), LAG480000
Visible Sheen	---: No Presence	Similar discharges * (BPJ), LAG480000

**Treatment:** none

**Monitoring Frequency:** daily for visible sheen and quarterly for all other parameters at the point of discharge from the washing activity prior to mixing with waters of the state.

**Limits Justification:** Limits and monitoring frequencies are based on current guidance for similar discharges from other facilities and the Light Commercial General Permit, LAG480000 effective August 1, 2001.

\* Existing permits for similar outfalls

Statement of Basis for

Louisiana Department of Wildlife and Fisheries, Grand Isle Marine Fisheries Laboratory  
LA0123358, AI No. 151353

Page 5

\* Existing permits for similar outfalls  
BPJ Best Professional Judgement  
su Standard Units

NOTE

For outfalls containing concentration limits, the usage of concentration limits is based on BPJ for similar outfalls since the flow is variable and estimated.

**STORM WATER POLLUTION PREVENTION PLAN (SWP3) REQUIREMENT**

As per LAC 33:IX.2511.B.14.a-k, storm water discharges from facilities classified as SIC code 8733 are not considered to be associated with industrial activities. Therefore, and SWP3 is not included in the permit.